


```

0Y 64 SANSRCKOCOCITLOSILKUYPLAEKYOPLDLPDDYOLAEAPILKEKSDANPANTEKRFW 123
Db 93 IAYNRCDEGOCITLTDSD-----KXPLSLPNBYQIDPAEMLEREDSNPAKNEVRFW 146
0Y 124 MFRGRCKHMSYFHDLVNLEKENVTRADADIDENFASRYLYMAVTLVKYTYNVNDEGAS 183
Db 147 MRSR--SSHGOYHHEFVYSLKKNNVRDESDNVENFASQYFMVTLTKYKTYLTYDPAK 204
0Y 184 FPNKLSTPTTGLFGWGIKALKOITRSNLPDIDTGHSHVSRLQHTTSYKYDMTOIDPAL 243
Db 205 FPNKLAFTTRLFEGCIOKALKRLRSNLPVLDGT--HEATITREIASGGEYMTQVPAWT 263
0Y 244 KFAKFEStLVVQORLLATYAGVYDTPWYKKWYKMLKLNPMVNVNVEIPTKKFENKEIRESK- 302
Db 264 SFAERFSMAARKTLLVYVSDVYHLPAYKRWKRKEEIVN--FPTDPAKLJMKHVSOPVT 322
0Y 303 ALKEKVSPTDKDLEFNKIGOGTVDFPNKEIRDPSPALKKEKVSNAKDOLFENKI-----G 356
Db 323 AYTKLVEPEHQAIRNVYGOSTKIHAN-GVYDLSRMKE-----PSQITREKLEPHYLSKA 377
0Y 357 OGTVDFINNEIRD--PSKALIRKYSTGAEDLEFNKIGOGTVDFINNEIRDPSPKALIRKY 414
Db 378 KGAVEHVYKVKVSVPIK---QKGDGPSEAAVEETVPSG--DSAETFEVVEEDGYDAVT 432
0Y 415 T-----EADD 419
Db 433 TOEVNSEKVDADD 445

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RESULT 2
5171685-6
Patent NO. 5171685
Applicant: MCELMAIN, TERRY F.; HINES, STEPHEN A.; MCCUIRE, TRAVIS C.; PALMER, GUY H.; JASMER, DOUGLAS P.; REUKER, DAVID W., GOLF, WILL L.; PERMYAN, LANCE E.; DAVIS, WILLIAM C.
TITLE OF INVENTION: CLONING OF THE BABESIA BOVIS 60 KD ANTIGEN
NUMBER OF SEQUENCES: 7
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/504,461
FILING DATE: 04-APR-1990
SEQ ID NO.: 6;
LENGTH: 565
5171685-6
Query Match          35.0%; Score 826.5; DB 6; Length 565;
Best Local Similarity 35.5%; Pred. No. 4,9e+68;
Matches 178; Conservative 79; Mismatches 195; Indels 49; Gaps 6
OY      1 MAPSDVGDTKTLAASESVDSAAANAYMINSMSDYLSAVSDFNAERICSGVPGKSNC 60
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      31 LAPAEVGDLTSTLETADLMLTRBHMHNITDMKHVLSNGREQIYNDCSNAPEDSNCR 90
OY      61 ASVSVMSCARQDCLTLOSLKYPLEAKOPTLPDPPEYLEAFIEFSKDNPANSTER 120
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      91 EYVNNAVRCHEGCGFTIDNVKYPILXQEGRPLSRPYDLDAFLFKFSASNPAANSVK 150
OY      121 RFWMRFRCKNHSYHDLVENLEKNVTBDATDIENFASRYLMATLYTYTNVDEE 180
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      151 RWMLEFRMGANGHDHYFYTGTLNNNVVHEEGTTDEVYLNVNLVYMATNYKTYLVNSGM 210
OY      181 GASFNKLSETTGLFGWGIRKALKQIIRSNLPLDICTEHVSRLQHTTSYKDYMDTOIP 240
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      211 NAKFEINRSPTTKITSRRIRQTLSDIRRNVEDP-EELSIERITQTYSIEDYMLTOLIP 269
OY      241 ALPKFAKRSELMVORLLATVAGYVDTPWYKKWYMKLNFMVNRVFIPKKF----- 292
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      270 TLSKEARRADWKYKVLLGSILTSYVEAPYKKWIKKFREDFFSKNTYQPKKFIEDTNEVT 329
OY      293 -----FNKEIRPSKALKEKYSTDDKDLFENKIGGGTVD 326
        :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
DB      330 KNYLKANAAPTKKKEMODTHEKTGVLKENVAEPTTKTFEKAPDYTHKFFDENIGOPTKE 389
OY      327 FNKEIRDPSKALKERVSNDADLFENKIGGGTVDFINNEIRDPSKALIRKYSTGAEDLF 386

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Db 390 FFREAPQATKTHFDENIGQPTKEFF-REAPQATKTHFGENIAQPTKEFFADVPQYTKVY 448
QY 387 ENKIGQGVDF-----INNEIRDSKALIRVYTEADDEENKIGQGVDFINK 435
Db 449 TENIAQPTKEFFRRVPHATMKVLLENIAQPAKEIHFEGTGAKN-FISAHEGTQFLNE 507
QY 436 EIRDSKALIR-KVSTEADNL 455
Db 508 TVGQPTKEFLNGALETTKDAL 528

[illegible]

```
RESULT 4
US-09-541-782-4
; Sequence 4, Application US/09541782
; Patent No. 6284480
; GENERAL INFORMATION:
; APPLICANT: Nislow, Corey
; APPLICANT: Sakowicz, Roman
; APPLICANT: Beraud, Christophe
; TITLE OF INVENTION: Antifungal Assay
; FILE REFERENCE: 1015
; CURRENT APPLICATION NUMBER: US/09/541.782
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1038
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-541-782-4

Query Match          5.18: Score 120; DB 4; Length 1038;
Best Local Similarity 19.58; Pred. No. 0.022;
Matches 119; Conservative 97; Mismatches 214; Indels 180; Gaps 28;

OY 4 SDSVDYTKTLTLLASEVSDSANAYMI-----NSDMSDYLSAVSD-----NFA 46
DB 188 SDAAGIIPVLLKLPDLELOQNDYVVKCSFTELYNEELKDLDSNSGSSNTGDFGQFM 247
OY 47 ERICSGVPGKSGCSASYSAWMSRCADOC-----LTLOS--LKYPLEAKYQPLTLPDP 97
DB 248 KKLIIFASSTANNTTSSASSSSRSNSRSRSLNDLIPKALKRKRTSLPRTIMQO 307
OY 98 YOLEAATILKRESANPANSTE-----KRFWRFRGRKNHSTFHDLY----- 139
DB 308 YOOQOAVNSRRNSSSGSTNNASNTNTNNGORSSMAPDQNGIYQMLQEFHITNA 367
OY 140 ---FNLEKNVT-RDADATDIFENFASR--VLYMATLYKYT-----TN 176
DB 368 MEGNLNLQKGLKRVAVSTKKNDFSSRSHITFTLLYKKHODELFRISKMLVDLAGSEN 427
OY 177 VDEFG-----ASFNKLSTFTG-----LFGWGIRRA 202
DB 428 INRGALNORAKKAGSINOSLITLGRVINALVDKSGHIFRESKUTRLLODSLGNTKTA 487
OY 203 LKQIIRSNLPIDIGTEHSVSLQHTTSYKDYMDTQIPALFKFAKRSLSM-----V 253
DB 488 L--IATISPAKYTSEETCSTLEY-ASKAKNIKIKK--POLGSFLMKDILVKNITWEIAKI 541
OY 254 VQRLLATVAG---YVDTPWKYKKWYMKLKNFVNVNFIPTKKFFNKELREPSKALKEKYST 310
DB 542 KSDLLSTKSEGIYMSODHKNLNSDLESYK-NEV-----QECKRETESLTSKNAL 591
OY 311 DTKDLFENKIGQGVDFENKEIR-----DPSKALKEKVSNDKDL--FENKIGQGT--- 359
DB 592 LVKDKLTKS---ETIQONOCIESLAKTTIDHLRAQLDKQKHTELEISFNKKLOKLTVEVM 648
OY 360 -----VDF-----INNEIRDPKALIRKYSTGAED--LEFNKIGQGVDFIN 399
DB 649 QMALHDYKRELDLNQKFEHMITKEIKKLTLEQLNTMOOESILQSTNI-QPMLDKIX 707
OY 400 NEIRDPKAL-----IRKRYTEADLLEFNKIGQGVDFINKEIRDPKAL---I 445
DB 708 NEVTLTKRTOEKAKELMYKDCVKKILNESKPEFNVLEK--IDILRVDFOKFYKNIABL 765
OY 446 RKVSTEADNL 455
DB 766 SDISENNNM 775
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RESULT 5
PCT-US93-07261-11
; Sequence 11, Application PC/TUS9307261
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GENERAL INFORMATION:
TITLE OF INVENTION: PEEMP3 MALARIA ANTIGEN, ANALOGS, ANTIBODIES AND USES THEREO
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: John H. C. Blasdale
STREET: One Giralda Farms
CITY: Madison
STATE: New Jersey
COUNTRY: USA
ZIP: 07940-1000
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Macintosh 6.0.5
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07261
FILING DATE: 19930805
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,531
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Blasdale, John H. C.
REGISTRATION NUMBER: 31,895
REFERENCE/DOCKET NUMBER: DX0288K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-822-7398
TELEFAX: 201-822-7039
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 1588 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US93-07261-11

Query Match          5.18: Score 119.5; DB 5; Length 1588;
Best Local Similarity 31.48; Pred. No. 0.045;
Matches 58; Conservative 31; Mismatches 65; Indels 31; Gaps 14;

OY 294 NKEIR-EPSKALKEKYSTDTLDLFENKIGQGT---TVDFENKEIRDP-SKALKEKVSNDK 348
DB 1045 NKELRNKGSEGLKENAEIKNEL-QNKGSEGLKENAEIKNELQKSGSEGLKENAEQK 1103
OY 349 DLFENKIGQGVDFINNEIRDPKALIRKYSTGAEDLE-----NKIGQGT---TVDFI 398
DB 1104 EL-QNKGSEGLKE--NAELK--NKELRNKGSDGLKENAEIKNELRNKSGDGLKENAEIK 1158
OY 399 NNEIRDP-SKALIRKYTEADLLEFNKIGQGVDFINKEIRDPKALIRKYSTGAED--- 453
DB 1159 NKELRNKGSEGLKENAVYTN-NDLKNDI--QNKDLSNKDKM--NKELRNKGSDGLKENAEIK 1213
OY 454 NLEK 458
DB 1214 ELNK 1218
```

```
RESULT 6
PCT-US93-07261-16
; Sequence 16, Application PC/TUS9307261
; GENERAL INFORMATION:
; TITLE OF INVENTION: PEEMP3 MALARIA ANTIGEN, ANALOGS, ANTIBODIES AND USES THEREO
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John H. C. Blasdale
; STREET: One Giralda Farms
; CITY: Madison
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07940-1000
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
```

OPERATING SYSTEM: Macintosh 6.0.5
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07261
FILING DATE: 19930805
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,531
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Blasdale, John H. C.
REGISTRATION NUMBER: 31,895
REFERENCE/DOCKET NUMBER: DX0288K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-822-7039
TELEFAX: 201-822-7039
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 1663 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
STRAIN: Malayan Camp
PCT-US93-07261-16

Query Match 5.1%; Score 119.5; DB 5; Length 1663;
Best Local Similarity 31.4%; Pred. No. 0.049;
Matches 58; Conservative 31; Mismatches 65; Indels 31; Gaps 14;

QY 294 NKIR-EPKALKKDYTDKDFENKIGG---TYDFNKEIRDP-SKALKKESVNDK 348
DB 1045 NKLKRGSGGLKENLKNEL-QNGSGGLKENLKNELQNGSGGLKENAEQNK 1103
QY 349 DLENKIGQVDFINNEIRDPKALIRKVTGAEDLFE-----NKIGG---TVDFI 398
DB 1104 EL-QNGSGGLK--NAELK--NKLKRGSGGLKENLKNELKNGSGGLKENAEK 1158
QY 399 NNEIRDP-SKALIRKVTGAEDLFEKNGIGQVDFINKEIRDPKALIRKVTGAED 453
DB 1159 NKLKRGSGGLKENYNTN-NDLKNNDI--QNKDLKSNKDK--NKLKNDISNKKDK 1213
QY 454 NLEK 458
DB 1214 ELNKK 1218

RESULT 7
US-08-484-105-14
Sequence 14, Application US/08484105
Patent No. 5589341
GENERAL INFORMATION:
APPLICANT: STILLMAN, Bruce
APPLICANT: BELL, Stephen P
APPLICANT: KOBAYASHI, Ryuji
APPLICANT: KINE, Jasper
APPLICANT: FOSS, Margit
APPLICANT: MCNALLY, Francis J
APPLICANT: LAURENSEN, Patricia
APPLICANT: HERKOWITZ, Ira
APPLICANT: LI, Joachim J
APPLICANT: GAVIN, Kimberly
TITLE OF INVENTION: ORIGIN OF REPLICATION COMPLEX GENES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,105
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman Ph.D., Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59032/DJB/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 494-8700
TELEFAX: (415) 494-8771
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-105-14

Query Match 4.7%; Score 111; DB 1; Length 885;
Best Local Similarity 19.3%; Pred. No. 0.12;
Matches 98; Conservative 82; Mismatches 199; Indels 128; Gaps 22;

QY 5 DSGVDVTKTLASSEVSANAYMIND--MSDYSAVSDNFAERICSV----- 53
DB 274 EATSDNDSLSSEYHESKEEENANSSSDSEDEFDYQAEALAEVPAKKKVRSTKPIPI 333
QY 54 -PKGNSCASVSAYMS--RCARODCLTQLSLKYLPAKYQPLTPDLYLEAFILEKE 109
DB 334 SPVKSQPLPDSAVHSSPRFKNIVRAKKAYTPFSKRYKNPIPLND-----IFQRH 388
QY 110 SDANPANSTKRRKRRRRKRNISYFHDVFNLEKRVTD-ADATDIENF-ASRYLYMA 167
DB 389 NNDLDIALEERFRTYSAKKMETIFSKYKKOLNSRNSKEIYKADEFDYLPAENEF 448
QY 168 TLVYKTYTNDVFCASFNNLSFTTGLFGWGIKRALKOIRSNLPDICT---EHSVRL 224
DB 449 STLSLYSAL-EGCTSTSTIYIAGTGV---GKTLTVREYVK-----DLMSAQKELPRF 499
QY 225 QHT-----TSSYK-----DYMTOIALPKFAKRFSLMVOQL 257
DB 500 QYIEINGLKIVKASDSYEVFMOKISGEKLTSGAAMESLEFYNKVPATKKRPVIVLDEL 559
QY 258 LATVAGVDPFW-YKKY--YMKLKNFY---NNVFITPKKFNK----- 295
DB 560 DALVSKSQDVYNNFNNMAYSNMKNLIVAVANTLDLPERHLGNKISSIGFTPTIMPTGYT 619
QY 296 -EIR-----EPKALKKRVSTDTDLFENKIGQVDFNKEIRDP 336
DB 620 HEELRTIINLRKLYNNESSFYVDPETGSSYMISDSTI-ETDEEKRNKFSN-----Y 672
QY 337 KALKKESVNDKDLFENKIGQVDFINNEIRDPKALIRKVTGAEDL-----FENKI- 390
DB 673 KRLKLRINPDALIASRKIAS-----VSGDVRALKVYKRAVEAYENDYKRLRYERLVN 727
QY 391 -----GQGVDFINNEIRDPKAL 409
DB 728 SKDTSNGTGNELQSVLEIKHITKAL 754

RESULT 8
US-08-484-106-14
Sequence 14, Application US/08484106
Patent No. 5614618
GENERAL INFORMATION:
APPLICANT: STILLMAN, Bruce
APPLICANT: BELL, Stephen P
APPLICANT: KOBAYASHI, Ryuji

APPLICANT: RINE, Jasper
APPLICANT: FOSS, Margit
APPLICANT: MCNALLY, Francis J
APPLICANT: LAURENSEN, Patricia
APPLICANT: HERSKOWITZ, Iita
APPLICANT: LI, Joachim J
APPLICANT: GAVIN, Kimberly
TITLE OF INVENTION: ORIGIN OF REPLICATION COMPLEX GENES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,106
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman Ph.D., Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59032/DJB/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 494-8700
TELEFAX: (415) 494-8771
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-106-14

Query Match 4.7%; Score 111; DB 1; Length 885;
Best Local Similarity 19.3%; Pred. NO. 0.12;
Matches 98; Conservative 82; Mismatches 199; Indels 128; Gaps 22;

QY 5 DSGVDTKTLLAASPSVDSANANAYMIND-MSDYLSAVSDFNFAERICQV----- 53
DB 274 EAIISNESDLSEYHSEKFEPAVSSSDSEFEEDYOSAEELAIVEPAKKKVRISIKPDIP 333
QY 54 -PKGNSCSASVAYMS---RCAKQDCLTQLSLKYLEAKYQPLTLPDPQLENAFLFKR 109
DB 334 SPVKSOPTLPQAPVAHVSSPPKFKNNIVRAKKAVYTPSKRYKKNKIPDLND----IFQHR 388
QY 110 SDANPANSSTKFRFMMFRGRKNHSYFHDVLPNLEKNVTRD-ADATDIENF-ASRYLYMA 167
DB 389 NNDLDIAALEEERFRVYSAKGMETIFSKYKKQKNSRNSKEIYKADDFONYLPARNEFA 448
QY 168 TLYVYTYTVNDEFGASFENKLSFTTGLFGWGIKRALKQIIRSNLPDICT--EHSVSRI 224
DB 449 STYLSYSAI-EAGTSTSIYIAGTGV--GKTLIVREYVK-----DLMTSADQKELPRF 499
QY 225 QHT-----TSSYK-----DYMTQIPALKKFKKFRSLMAYQRL 257
DB 500 QYIEINGLKIYASDSYEVFMOKISGEKLTSGAAMESTLEFYENKVPATKKRPILVLLDEL 559
QY 258 LATVAGYVTPV-YKKW--YMKLKNMV---NRVFIPTKKFEK----- 295
DB 560 DALVSKSQDVMYVNFWMATYSNAKLIVAVANTLDLPERHLGKISSRIGFTRIMETGYT 619
QY 296 --EIR-----EPKALKKGVSTDTKDLFENKIGQGVDFENKEIRDPDS 336
DB 620 HELLRTIINLRKLYINNESSFYVDPETGSSSYMTSPDSSTI-ETDEEEKRRDFSN-----Y 672

QY 337 KALKEKVSNDADLFENKIGQGVDFINNEIRDPKALIRKYSTGAEDL-----FENKI- 390
DB 673 KRKLKRLINPDALIEIASRKIAS-----VSGDYRALKAVRAVEYANDYKRLRYELRN 727
QY 391 -----GQGVDFINNEIRDPKAL 409
DB 728 SKKDTSGNGTGNELQSVLEIKHITKAL 754

RESULT 9
US-08-453-848-9
Sequence 9, Application US/08453848
Patent No. 5858368
GENERAL INFORMATION:
APPLICANT: Smith, Gale Eugene
APPLICANT: VOLOVITZ, Franklin
APPLICANT: WILKINSON, Bethanie Eident
APPLICANT: VOZNESENSKY, Andrei I.
APPLICANT: HACKETT, Craig Stanway
TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
TITLE OF INVENTION: HEMAGGLUTININ MULTIVALENT VACCINES
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: GA
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,848
FILING DATE: 30-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/120,607
FILING DATE: 13-SEPT-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MGS101CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-873-8795
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 572 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Influenza virus
INDIVIDUAL ISOLATE: A/Texas/36/91 rHA
NAME/KEY: ACPV 61K protein signal sequence
LOCATION: 1 to 18
FEATURE:
NAME/KEY: mature rHA
LOCATION: 19 to 554
US-08-453-848-9

Query Match 4.5%; Score 105.5; DB 2; Length 572;

Best Local Similarity 22.3%; Pred. No. 0.19;
Matches 60; Conservative 37; Mismatches 87; Indels 85; Gaps 14;

```

OY 195 FGMGIRKALKOIIIRSNLPIDIGTEHSVRLQHTSS--YKDYMDTOIPALPKFAKRSLSM 252
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 286 FGSG-----ITSNASMECDACKCOTPOGAINSSLPFQVNHPTTIGECKYVYSTKLR 338
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 253 VV-----ORLATVAGYVDFPW---YKKWY-----MKLKN 279
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 339 MWGLRNIPISQSRGLGALGFIIEGWTGMIDGMYGHHONEGSGYADQKSTQNAIN 398
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 280 FMVNRV-----FIPTRKFFNKIREPSKALKEKYSTDTKD-----LEFNK 319
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 399 GITNKVNSVIEKMTQPTAVGKEFNK-LERRMENLNKKVDGFLDIWTYNAELLVLEEN- 456
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 320 IGGTVEFNFKEIRDPKALKKEKYSNDAKDLFENKIGOGTYDF--INNEIRDSKALIR 376
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 457 -GR-TLDFHDSNVKNLYEKYSQLKNNAKE-----IGNGCEFFYHKCNE-----CME 502
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 377 KVTGAEDL---FENKIGOGTYDFINNE 401
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 503 SVKNGTYDPKYSSESKLNKRGIDGVKLE 531
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 10
US-09-169-027-9

; Sequence 9, Application US/09169027
; Patent No. 6245532

; GENERAL INFORMATION:

; APPLICANT: Smith, Gale Eugene

; APPLICANT: Volkovitz, Franklin

; APPLICANT: Wilkinson, Bethanie Elident

; APPLICANT: Voznesensky, Andrei I.

; APPLICANT: Hackett, Craig Stanway

; TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA

; NUMBER OF SEQUENCES: 31

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patricia L. Pabst

; STREET: 2800 One Atlantic Center

; CITY: Atlanta

; STATE: GA

; COUNTRY: USA

; ZIP: 30309-3450

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/169,027

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/453,848

; FILING DATE: 30-MAY-1995

; APPLICATION NUMBER: 08/120,607

; FILING DATE: 13-SEPT-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pabst, Patricia L.

; REGISTRATION NUMBER: 31,284

; REFERENCE/DOCKET NUMBER: MGS101CIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (404)-873-8794

; TELEFAX: (404)-873-8795

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 572 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Influenza virus
; INDIVIDUAL ISOLATE: A/Texas/36/91 rHA
; FEATURE:
; NAME/KEY: AcNPV 61k protein signal sequence
; LOCATION: 1 to 18
; FEATURE:
; NAME/KEY: mature rHA
; LOCATION: 19 to 534
; US-09-169-027-9

Query Match 4.5%; Score 105.5; DB 4; Length 572;
Best Local Similarity 22.3%; Pred. No. 0.19;
Matches 60; Conservative 37; Mismatches 87; Indels 85; Gaps 14;

```

OY 195 FGMGIRKALKOIIIRSNLPIDIGTEHSVRLQHTSS--YKDYMDTOIPALPKFAKRSLSM 252
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 286 FGSG-----ITSNASMECDACKCOTPOGAINSSLPFQVNHPTTIGECKYVYSTKLR 338
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 253 VV-----ORLATVAGYVDFPW---YKKWY-----MKLKN 279
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 339 MWGLRNIPISQSRGLGALGFIIEGWTGMIDGMYGHHONEGSGYADQKSTQNAIN 398
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 280 FMVNRV-----FIPTRKFFNKIREPSKALKEKYSTDTKD-----LEFNK 319
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 399 GITNKVNSVIEKMTQPTAVGKEFNK-LERRMENLNKKVDGFLDIWTYNAELLVLEEN- 456
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 320 IGGTVEFNFKEIRDPKALKKEKYSNDAKDLFENKIGOGTYDF--INNEIRDSKALIR 376
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 457 -GR-TLDFHDSNVKNLYEKYSQLKNNAKE-----IGNGCEFFYHKCNE-----CME 502
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 377 KVTGAEDL---FENKIGOGTYDFINNE 401
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 503 SVKNGTYDPKYSSESKLNKRGIDGVKLE 531
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 11
US-09-091-117-2

; Sequence 2, Application US/09091117
; Patent No. 6171589

; GENERAL INFORMATION:

; APPLICANT: The University of Melbourne

; TITLE OF INVENTION: Mycoplasma Recombinant Polypeptides and

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: GREENLEE, WINNER and SULLIVAN P.C.

; STREET: 5370 Manhattan Circle, Suite 201

; CITY: Boulder

; STATE: Colorado

; COUNTRY: United States of America

; ZIP: 80303

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/091,117

; FILING DATE: 12 JUNE 1998

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/AU96/00803

; FILING DATE: 13-DEC-1996

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: AU PN7127

; FILING DATE: 13-DEC-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: WINNER, Ellen P.

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: +1 303 499 8080

TELEFAX: +1 303 499 8089
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1030 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-091-117-2

Query Match
Best Local Similarity 21.2%; Score 104.5; DB 4; Length 1030;
Matches 93; Conservative 68; Mismatches 173; Indels 105; Gaps 21;

4.4%;
Score 104.5; DB 4; Length 1030;
Pred. No. 0.58;
Matches 93; Conservative 68; Mismatches 173; Indels 105; Gaps 21;

78 LQSLKVPLEAKYQ-----LTLDP-----PYOLEAFLFEK-----SD 111
112 AN--PANSTERKFRMMRFRGKNHVFHDLVFNILEKNVTADADTDIENFASRYLYMATL 169
108 AKAFPALTDADQEWVDQQLFNQSFEDL--SAPRSNFTLSDDKASLDPIR----- 158
170 YKTYTNDVDFGASFPFNKLSFTTGLFGWGIKRALKOIIRSNLPDIDGTEHSVRLQHTS 229
159 -----FTN-----FTESVOLLKLPBGVSIVVDSKOSFDYVNASQKLLVLP 201
230 SYKD-----YMDTOIPALPKFAKRSIMVVOALLATVAGYVDTPIYKKYMKLKNFMVN 283
202 SLPDDTLGLINVFHDHTLLGKAVNKFSENPFTNLMLA-----FSNVKGVDFEAO 253
284 RVFIPTKKEFNKEIRPSKALKEKYSTDTKDLFE-----NKIGQTVDFPNKEIRDPK 337
254 KLVGKCKLNLHVK--ADYKDKVANIKNQDIAKIIAELMGKALKKEFGNQDEQPLS 311
338 ALK--EKYSNDAKDLFENKIGQTVDFINNEIRDPKALIRKYSTGAEPLFENKIGQTV 395
312 FLKVDKVKEDPEKLF--NLVRPGLGKFVYKGLIQSSQA--ENKITYKKLIFDK--KTI 365
396 DFINNEIRDP-----SKALIR--KYTTEADDLFENKIGQTVDFINKEIRDPK 443
366 LMLLELSLPELNSLGLADVLFEDVITDSDGLERL--OSFQDLIVPAVKTNKTEKTAISP 423
444 LIRKYSTAD-----NLER 458
424 LIEELLTKQDYVFDLQK 442

RESULT 12
US-08-694-869-1
; Sequence 1, Application US/08694869
; Patent No. 5994123
; GENERAL INFORMATION:
; APPLICANT: Olszewski, N.
; APPLICANT: Tzafir, I.
; APPLICANT: Somers, D. A.
; APPLICANT: Lockhart, B.
; APPLICANT: Torbert, K.
; TITLE OF INVENTION: SUGARCANE BACILLIFORM VIRUS
; TITLE OF INVENTION: PROMOTER
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schwegman, Lundberg, Woessner & Kluth, P.A.
; STREET: P.O. Box 2938
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/694,869

FILING DATE: 09-AUG-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Woessner, Warren D
; REGISTRATION NUMBER: 30,440
; REFERENCE/DOCKET NUMBER: 600.369051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-373-6900
; TELEFAX: 612-339-3061
; TELETYPE:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1871 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-694-869-1

Query Match
Best Local Similarity 19.9%; Score 104; DB 2; Length 1871;
Matches 84; Conservative 60; Mismatches 140; Indels 138; Gaps 21;

4.4%;
Score 104; DB 2; Length 1871;
Pred. No. 1.6;
Matches 84; Conservative 60; Mismatches 140; Indels 138; Gaps 21;

83 YPLEAKYQ-----LTLDPYOLEAFLFEKESDANPANSTERKFRMMR 125
81 FPAEVLVYGRSDDIHKKVFGSSSDILLIDNDQDMFTI-----KEEPEOL 128
126 FRGKNHSEYHD-----LVFNILEKNVTADADTDIE--NFASRYL 164
129 EDAGLR--YIHGILAVRIQPLHPDWSKLVIVFDIRNDPPRYGAEIDLSKGPOMV 186
165 YNATLYKTYTNDVDFGASFPFNKLSFTT--GLFGW--GIKRALKOIIRSNLPDIDGTEHS 220
187 YVINSFMTIKD-----FFHGIDLVKVKYGEWOG-----EANLHTE--RLI 227
221 VSRLOHTSSYKDYMDTOIPALPKFAKRSIMVVOALLATVAGYVDTPIYKKYMKLKNF 280
228 TRLSMTNTVYFKY--KVEGVASFITKIGIKAEYKKSVKIRGGEWN----- 274
281 MVRVRFPTKKEFNKEIRPSKALKEKYSTDTKDLFENKIGQTVDFPNKEIRDPK 340
275 -----ILPSKL--EYVMQPT-----KVQTT-----ENDIGTISFRFTNEGASSKPV 316
341 EKYSNDA--KDLFENKIGQTVDFINNEIRDPKALIRKYSTG---AEDLFENKIGQTV 395
317 HNSDEAYVALPEEEDDEDITFLNR-----ILSKYSTQCKVGEFEESPEEDQITS 368
396 DFINN-----EIRDPKALIRKYSTGAEPLFENKIGQTVDFINKEIRDPKALIRK 448
369 DFLGKTEAVPAIEEYEPALRR-----LEQIMKTRV-----VVOEIEEPQAPVEAKM 416
449 ST 450
417 ST 418

RESULT 13
US-09-349-546-1
; Sequence 1, Application US/09349546
; Patent No. 6093569
; GENERAL INFORMATION:
; APPLICANT: Olszewski, N.
; APPLICANT: Tzafir, I.
; APPLICANT: Somers, D. A.
; APPLICANT: Lockhart, B.
; APPLICANT: Torbert, K.
; TITLE OF INVENTION: Sugarcane bacilliform virus promoter
; FILE REFERENCE: 600.369052
; CURRENT APPLICATION NUMBER: US/09/349,546
; CURRENT FILING DATE: 1999-07-08

```

: EARLIER APPLICATION NUMBER: US 08/694,869
: EARLIER FILING DATE: 1996-08-09
: EARLIER APPLICATION NUMBER: PCT/IB97/01338
: EARLIER FILING DATE: 1997-08-13
: NUMBER OF SEQ ID NOS: 10
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 1
: LENGTH: 1871
: TYPE: PRT
: ORGANISM: sugarcane bacilliform virus
US-09-349-546-1

```

```

Query Match          4.4%: Score 104; DB 3; Length 1871;
Best Local Similarity 19.9%: Pred. No. 1.6;
Matches 84; Conservative 60; Mismatches 140; Indels 138; Gaps 21;

```

```

QY 83 YPLEAKYOP-----LTLPPYQLEAFILFKESDANPAKSTEREFMR 125
DB 81 FPAEVLGPRSDDIHKVKGSSODILLIDNOLDMTFI-----KEETFEOL 128
QY 126 FRGCKNHSYFHD-----LVFNLEKVTNRDADATDIE-NFASRYL 164
DB 129 EQAGLR--YIHPGLAVRIOPLHPDWSCKLVFIYFROI RDNPPRYLGAMEIDLSGPGMV 186
QY 165 YMATLYKTYTNVDEFGASFNNKLSFTT--GLFGW-GIKRALKQIIRSNLPDIGHES 220
DB 187 YVINSFMTTIDK-----FPHGIOLFTVKVKGEGWQ-----EANLHIE---RLI 227
QY 221 VSRLOHTSSKDYMDIOIPALPKAFKFSLMVVOQLATVAGYVDTPWYKKWYKLLKNF 280
DB 228 TARLSTNTNVEFKY--KVEGVASTIKTKGKIKALEATKSKVKGIRGEWN----- 274
QY 281 MVNVEFIPTKFKKEIREPSKALKEKYSTDTKDLFENKIGQTVDFENKEIRDPKALK 340
DB 275 -----ILPSKL---EYVWQPT-----KVQIT-----ENYDGTISRFNTNYGASSSKVE 316
QY 341 EKVSNDK-KDLFENKIGQTVDFINNEIRDPKSKALIRKYSTG---ADLFEKNIGQTV 395
DB 317 HNSDEAVMALFEDEEEDDTITFLNR-----ILSKYSTQOKVKGEEFSPEDQIIS 368
QY 396 DFINN-----EIRDPKSKALIRKYTFEADDLFENKIGQTVDFINKEIRDPKSKALIKV 448
DB 369 DFLKTEBAYPAIEEYPALRR-----LEOLMKTKV-----VQDIEEESQVEAKM 416
QY 449 ST 450
DB 417 ST 418

```

```

RESULT 14
US-08-688-988-8
: Sequence 8, Application US/08688988B
: Patent No. 6096545
: GENERAL INFORMATION:
: APPLICANT: Lefebvre, Daniel D.
: APPLICANT: Malboodl, Mohammad A.
: TITLE OF INVENTION: PHOSPHATE STARVATION-INDUCIBLE PROTEINS
: FILE REFERENCE: P196-03
: CURRENT APPLICATION NUMBER: US/08/688,988B
: CURRENT FILING DATE: 1996-07-31
: NUMBER OF SEQ ID NOS: 48
: SOFTWARE: FASTSEQ for Windows Version 3.0
: SEQ ID NO 8
: LENGTH: 437
: TYPE: PRT
: ORGANISM: Brassica nigra
US-08-688-988-8

```

```

Query Match          4.4%: Score 103.5; DB 3; Length 437;
Best Local Similarity 20.5%: Pred. No. 0.2;
Matches 62; Conservative 40; Mismatches 86; Indels 115; Gaps 15;
QY 181 GASFFNKLSTFTGLFGWGIKRALKQIIRSNLPDIGHESVRLQHT-TSSYKDY----M 235

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DB 201 GASIDRALDF---ILGW-----HLOTVMGDPQIIMK 229
QY 226 DQIPLPKFAKRFSLAVVORLLATVAGYVDPWYKKWYKLNFMVNRVLEPFFKKFNNK 295
DB 230 DIVGRLPKFTE-----AQKAKLRKNSADPVLNLY-----TSMFSN 265
QY 296 EIREPSKA-----LKEKYSTDTKDLFENKIGQ---GTVEFNKEIRDPKSKALKEKVSND 346
DB 266 HLEKDPKAPRMWQDSLINMETKNKNAYSIGSKPITGALPVGARFGRSLIKYKDKYGNP 325
QY 347 AKDLFENKIGQ-----GYVD-----FINNEIRDPKSKAL-IRKYS-TGA----- 382
DB 336 EIMIMENYGEELGAADSEVGTADHNRKYYLQRLHLSMNEAICIDKVNVTGYFVWSLLD 385
QY 383 -----EDLFENKIGQTVDFINNEIRDPKSKALIRKYTFEADDLFENKIGQTVDFINKEIR 438
DB 386 NFEWODGKNNRFGLYIDFKNNLTR-----YENESGRYYKKDFLSQSVR 428
QY 439 DPS 441
DB 429 -PS 430

```

```

RESULT 15
US-08-642-846-2
: Sequence 2, Application US/08642846
: Patent No. 5886151
: GENERAL INFORMATION:
: APPLICANT: HOSTETTER, MARGARET K.
: APPLICANT: GALE, CHERYL A.
: APPLICANT: BENDEL, CATHERINE M.
: APPLICANT: TAO, NIAN-JUN
: APPLICANT: KENDRICK, KATHLEEN
: TITLE OF INVENTION: CANDIDA ALBICANS GENE, INTEGRIN-LIKE
: TITLE OF INVENTION: PROTEIN, ANTIBODIES, AND METHODS OF USE
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESS:
: ADDRESSSEE: MEETING, RAASCH, GERHARDT & SCHWAPPACH, P. A.
: STREET: 119 NORTH FOURTH STREET, SUITE 203
: CITY: MINNEAPOLIS
: STATE: MINNESOTA
: COUNTRY: USA
: ZIP: 55401
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentln Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/642,846
: FILING DATE: 03-MAY-1996
: CLASSIFICATION: 42A
: ATTORNEY/AGENT INFORMATION:
: NAME: MEETING, ANN M.
: REGISTRATION NUMBER: 33,977
: REFERENCE/DOCKET NUMBER: 110,00280101
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 612-305-1217
: TELEFAX: 612-305-1228
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1664 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-642-846-2

```

```

Query Match          4.3%: Score 102; DB 2; Length 1664;
Best Local Similarity 20.9%: Pred. No. 2;
Matches 113; Conservative 64; Mismatches 214; Indels 150; Gaps 29;

```


		ATTORNEY/AGENT INFORMATION:	
		NAME: MUETING, ANN M.	
		REGISTRATION NUMBER: 33,977	
		REFERENCE/DOCKET NUMBER: 110.00280101	
		TELECOMMUNICATION INFORMATION:	
		TELEPHONE: 612-305-1217	
		TELEFAX: 612-305-1228	
		INFORMATION FOR SEQ ID NO: 2:	
		SEQUENCE CHARACTERISTICS:	
		LENGTH: 1664 amino acids	
		TYPE: amino acid	
		STRANDEDNESS: single	
		TOPOLOGY: linear	
		MOLECULE TYPE: protein	
		US-09-264-604-2	
		4.3%; Score 102; DB 4; Length 1664;	
		Best Local Similarity 20.9%; Pred. No. 2;	
		Matches 113; Conservative 64; Mismatches 214; Indels 150; Gaps 29	
QY	4	SDSVGD-----VTKTLAA-----SESVDASANAAMINSDMSDYLSAVSDF	45
Db	629	SDIIGDKYGNSSSEITFTKTLAPPRSDNDNDKENSKEISLEDPAN-----NESIQQL-----	677
QY	46	AERICSQPKKSGNCASVAYMSRCARAKODCLTLOSILKYLEAKYQPLTLP-DPY-QLEAA	103
Db	678	-----EVPHTKE-DDSILLANSSNIAPPELTLPVVEANDYSSFDNVTFTPAYSSFEES	730
QY	104	FILEKESDANPANSTERKEHFMMFRGRGNHSYP-----HDVLFNLEKVTEDADA	153
Db	731	LSREHETDSKPLNFTS--IMHKOEOKKHQIHKVPKQIYASYQYKKNQESRYT--SDK	786
QY	154	TDLENFASRYLYMATLYYKYTYTNV-----DEFGAS-FFNKLSFTTGLFGWGIR	200
Db	787	VKIPV-----AIOFKKFEKVENVMRSRYVSPDMDLNVASQFLPELSEDSGFKDLNPA	837
QY	201	RALKQIITSNLPDICTGHSVSRLOHITTSYDYMDTQIPLPKFRKRSIMVQPLLAT	260
Db	838	NYSNNTNPRSRFTPLSTKNVLSNIDN-----DPNVPEPPEKSVAEIRNARLSAN	888
QY	261	VAGYVDTP-----WYKKWYMKLNFMVNRVFETPKKFEKKEIREPSKALKEKYSTDT-KD	314
Db	889	KAAPQAPPLPRLPQRPSSSTRSNKRVSRFRVPT-----FEIRIRISSAL--APCMYND	940
QY	315	LEFNKIGQIVDFENKEIRDPKSKALKEKYSNDAKDLFENKIGQIVDFINNEIRD--PSK	372
Db	941	IFDD-FGASRKPTIKAE--GMKTLPSMDKDDVKRILNKKGTQOEYINAKLVDDQPKPK	996
QY	373	ALIRKVSIGAEDELFN-----KIGQIVD-----FINNEIRDPKSAALIR	411
Db	997	--NSIVTDPEDRYEELQOTASINHAATIDSITYGRDPSISTDMLPVLSELKKPPTPAL-	1052
QY	412	KYVTEADDLF-----ENKI-----GGQIVDFINKEIRDPKSKALI-----RKVSTEADN	454
Db	1053	-----SADRLFEQEVYPLRKSNSVLVHPGAGAA-TNSSMLPEDFELINSPARVNSNSDN	1107
QY	455	L	455
Db	1108	V	1108
RESULT 17			
US-08-799-138-4			
Sequence 4, Application US/08799138			
Patent No. 5994053			
GENERAL INFORMATION:			
APPLICANT: Verma, Desh Pal			
TITLE OF INVENTION: PARAGOMPLASTIN			
NUMBER OF SEQUENCES: 6			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: CALFEI, HALTER & GRISWOLD			
STREET: 800 SUPERIOR AVENUE			
CITY: CLEVELAND			

STATE: OHIO
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: GOLTRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-799-138-4

Query Match 4.3%; Score 101.5; DB 2; Length 610;
Best Local Similarity 17.5%; Pred. No. 0.5; Indels 127; Gaps 17;
Matches 68; Conservative 67; Mismatches 127;

QY 139 VFNLEKNTVRDADTDIENFASRYLYMATLYKTYTNVDEGASFPNKLSTFTGLFGWG 198
DB 240 VVNRSGQDINKNVDMIAARRREREY-FNSTPEYKHLAN--RMGSEHLAKM----- 286
QY 199 IKRALKOIIRSNLPIDIGTEHSVR-----LQHTTSS-- 230
DB 287 LSKHLETVYKSKIP--GIQSLINKTIALEAELTRLCKPVRADAGKLYAIMEICRSPD 343
QY 231 --YKDYM-----DTQIPALPK--FAKRSFLMVQVRLATVAGY--VDP 268
DB 344 QIFKHLDGVRGDKITYNVDNOLPALKRLQFQKLSMENIRKLITLITADGYOCHLLAP 403
QY 269 WYKKWYMKL-KNFVNRVAFIPTKFENKEIREPSKALKEKYSTDKDLFENKIGGTVDF 327
DB 404 --EGYRRLIESSLT-----IRGPAAVAADVASHLLKDLVH----- 438
QY 328 FNKETRDSKALKEKYSNDADKDLFENKIGGTVDFINNEIRDPKALIRKYSTGADLFE 387
DB 439 -----KAISFTLDLKQYPLGLRVEVGAADVSL-ERMDESK-----RATLQLVD 481
QY 388 NKIGGTVDFINNEIRDPKSA--LIRKYTTEADDLFENKIGGTVDFINK----- 435
DB 482 MECGYLVDFEPRKLPQDVODKGNPTHSIFDRYNDSYLRIGTITLSYVMVCATLRNSIP 541
QY 436 -----EIRDPKALIRKYSTEADNMLEK 458
DB 542 KSIYVCQVREAKRSLDHFETELGKMETK 570

RESULT 18
US-09-392-362-4
Sequence 4, Application US/09392362
Patent No. 6248868
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFE, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO

COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/392,362
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: GOLTRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-392-362-4

Query Match 4.3%; Score 101.5; DB 4; Length 610;
Best Local Similarity 17.5%; Pred. No. 0.5; Indels 127; Gaps 17;
Matches 68; Conservative 67; Mismatches 127;

QY 139 VFNLEKNTVRDADTDIENFASRYLYMATLYKTYTNVDEGASFPNKLSTFTGLFGWG 198
DB 240 VVNRSGQDINKNVDMIAARRREREY-FNSTPEYKHLAN--RMGSEHLAKM----- 286
QY 199 IKRALKOIIRSNLPIDIGTEHSVR-----LQHTTSS-- 230
DB 287 LSKHLETVYKSKIP--GIQSLINKTIALEAELTRLCKPVRADAGKLYAIMEICRSPD 343
QY 231 --YKDYM-----DTQIPALPK--FAKRSFLMVQVRLATVAGY--VDP 268
DB 344 QIFKHLDGVRGDKITYNVDNOLPALKRLQFQKLSMENIRKLITLITADGYOCHLLAP 403
QY 269 WYKKWYMKL-KNFVNRVAFIPTKFENKEIREPSKALKEKYSTDKDLFENKIGGTVDF 327
DB 404 --EGYRRLIESSLT-----IRGPAAVAADVASHLLKDLVH----- 438
QY 328 FNKETRDSKALKEKYSNDADKDLFENKIGGTVDFINNEIRDPKALIRKYSTGADLFE 387
DB 439 -----KAISFTLDLKQYPLGLRVEVGAADVSL-ERMDESK-----RATLQLVD 481
QY 388 NKIGGTVDFINNEIRDPKSA--LIRKYTTEADDLFENKIGGTVDFINK----- 435
DB 482 MECGYLVDFEPRKLPQDVODKGNPTHSIFDRYNDSYLRIGTITLSYVMVCATLRNSIP 541
QY 436 -----EIRDPKALIRKYSTEADNMLEK 458
DB 542 KSIYVCQVREAKRSLDHFETELGKMETK 570

RESULT 19
US-08-910-551B-2
Sequence 2, Application US/08910551B
Patent No. 5910571
GENERAL INFORMATION:
APPLICANT: Sylvain Moineau, Barbara
APPLICANT: J. Hollier, Peter A. Vandenberg,
APPLICANT: Ebenezer R. Vedamuthu, Jeffrey K.
APPLICANT: Kondo
TITLE OF INVENTION: DNA Encoding Phage
Abortive Infection Protein

TITLE OF INVENTION: From Lactococcus
 TITLE OF INVENTION: lactis, and Method of Use Thereof
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ian C. McLeod
 STREET: 2190 Commons Parkway
 CITY: Okemos
 STATE: Michigan
 COUNTRY: USA
 ZIP: 48864
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette 5.25 inch,
 MEDIUM TYPE: 360 Kb storage
 COMPUTER: Acer
 OPERATING SYSTEM: MS-DOS (version 4)
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/910,551B
 FILING DATE: August 11, 1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/565,907
 FILING DATE: December 1, 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Ian C. McLeod
 REGISTRATION NUMBER: 20,931
 REFERENCE/DOCKET NUMBER: Quest 4.1-158
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (517) 347-4100
 TELEFAX: (517) 347-4103
 TELEX: No. 5910571e
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 599
 TYPE: Amino Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: Protein
 DESCRIPTION: Protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: N/A
 ORIGINAL SOURCE:
 ORGANISM: Lactococcus lactis
 STRAIN:
 INDIVIDUAL ISOLATE: W1
 DEVELOPMENTAL STAGE: N/A
 HAPLOTYPE: N/A
 TISSUE TYPE: N/A
 CELL TYPE: bacterium
 CELL LINE: N/A
 ORGANELLE: N/A
 IMMEDIATE SOURCE:
 LIBRARY: genomic
 CLONE: SMG-20
 POSITION IN GENOME: N/A
 FEATURE:
 NAME/KEY: phage abortive infection
 LOCATION: N/A
 IDENTIFICATION METHOD: based upon DNA
 OTHER INFORMATION: phage resistance
 OTHER INFORMATION: enzyme able
 PUBLICATION INFORMATION: N/A
 US-08-910-551B-2

Query Match 4.2%; Score 100; DB 2; Length 599;
Best Local Similarity 19.4%; Pred. No. 0.67;
Matches 91; Conservative 56; Mismatches 137; Indels 184; Gaps 21

Oy 129 GKNSYF-----HDLVFNLEK-----NVTDRADATIDENFASKI 163
||: ||:
Db 45 GKSDSEFFKKVENMESEFADLNSHDILTKHNCKRPLSTDPVEYNIPRNIEARQYKMPNLY 104

```

OY      164 LYMATLY-----KYTNW---DERGAS-FPNKLSF-----TTGLFG-----    196
           ||| || : | : | :|||:||| |||
Db       105 SYMALNTICONKKEFIEVFLIDNKSTSKFRNQLNFEDPKTQETITOTULLIGICKKLHDL   164
OY      197 -----NGI--KRALKQ-----IISSNPJLDIGT   217
           ||| ||| ||| |||
Db       165 SNEYTLTYTHSIPIWMIDDKSASKONRKKGFSNLTDLTITACQYDETHGIIPGNLLSRIT     224
OY      218 E----HSYSRLQHITTSSIKDYMDTOIPALP-----KFAPRSLMYQR-----    256
           | : ::::: | : | : ||| : | : ||| : 
Db       225 ELYMCHFDKOMEXKFFVSRYVDDEFI--FPPTENKEOFLEINFILCRENNLIINDKT     282
OY      257 -----LALTAVAGYDTPAYKKMWMLTKRFM---VRVPFIPKPFENKEIR   298
Db       283 KYDNPPFYDKRSKSDFEFTFNITISTNSNDMKIKEISNFIDYCVAHEHLGAKGAICIFP   342
OY      299 EPSKAIKERVSTDTRKD-----FE-NKI        320
Db       343 VITNTLRJK-KVDTFKNINIESFKRMATYNFWEEKILDLSKDSRLTKNFLTEPENINEF   401
OY      321 GGGTVDPFN---KEIRDPSKAIAKEVSDADLFENKIGCGTVDPINNNEIRD--PSKALI   375
           || : || : | : ||| ||| : | : ||| : | : ||| : | : |||
Db       402 GFSSIASANIYKKTFSPNSSKSGLKEDIHYRRKNMFQELOYILLYWVEIDLNOELL         461
OY      376 RKVGSTAGEDLENKIGCGTVDPINNNEIRDPSKALIRKYTTEADDGFEN 423
Db       462 NLIDANTIDDY-SLIGSTITYLTKN-----SSYKELKLUKRIODOLF IN 501

RESULT 20
US-09-308-375-2
; Sequence 2, Application US/09308375
; Patent No. 6300117
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC394-PCT
; CURRENT APPLICATION NUMBER: US/09/308, 375
; CURRENT FILING DATE: 1999-05-14
; EARLIER APPLICATION NUMBER: EP9719636.4
; EARLIER FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2285
; TYPE: PRT
; ORGANISM: Bacillus subtilis
; US-09-308-375-2
```

	Query Match	4.2%	Score 99	DB 4	Length 2285;
	Best Local Similarity	20.7%	Pred. No. 6.1;		
	Matches	63;	Conservative	69;	Mismatches 119; Indels 54; Gaps 15;
Oy	199	IKRALKQIRSNLPIDT-GTEHSVSRLO-----HITSSYKD---YMDTOIPAL--	242		
Db	1824	VRELQKQVOSVDETLSEIEKSSSKTGKIKDYDNKISMTEEDDKVKKYSKILTIQQ	1883		
Oy	243	-PFAKRESLWVOELTFVAGYV----TPWVKVMKLKNFNVNVPFLPTKFFNKE	296		
Db	1884	QOKENAKKIKOLEBKKA-AKGFPDIQGITPEMOMNMKDQKDF--NELINTK----KS	1936		
Oy	297	IREFSKALKEKVSTDKDLFE-----NKIGQGVDPFNKEIRDPSCALE-KVSN	345		
Db	1937	IKDITSLSADEVAVSLYKEMYEMKRDI ELEAHOKATODIDEIDK-TDEEAKFOKELKERQ	1995		
Oy	346	DAKDLEFKKIGGQTVD---FINNEIRDSKALIRVSTGAEDLFENKIGQGVDPINNEI	402		
Db	1996	DSIQGLTDQINOYSLDDDEFKSKVKTELTEL-QKEQLDDDDLKDRSNNRKELAQQL	2054		
Oy	403	RDPSCALIRKYVTEAD-----LEPNKIGQGVDFINKEIRDPSCALIRKY---STEAD	453		
Db	2055	EKDESINNKKDNLVNDERAFKKLEDKIMPKRIDIVIAOLFESKFINTNSESIGKTSIN	2114		

OY 454 NLLEK 458
 Db 2115 NLIDK 2119

RESULT 21

US-08-688-988-10
 : Sequence 10, Application US/08688988B
 : Patent No. 6096545
 : GENERAL INFORMATION:
 : APPLICANT: Lefebvre, Daniel D.
 : APPLICANT: Malboobi, Mohammed A.
 : TITLE OF INVENTION: PHOSPHATE STARVATION-INDUCIBLE PROTEINS
 : FILE REFERENCE: PPL96-03
 : CURRENT APPLICATION NUMBER: US/08/688,988B
 : CURRENT FILING DATE: 1996-07-31
 : NUMBER OF SEQ ID NOS: 48
 : SOFTWARE: FastSeq for Windows Version 3.0
 : SEQ ID NO 10
 : LENGTH: 525
 : TYPE: PRT
 : ORGANISM: Arabidopsis Thaliana
 US-08-688-988-10

Query Match 4.1%; Score 97.5; DB 3; Length 525;
 Best Local Similarity 17.7%; Pred. No. 0.93;
 Matches 77; Conservative 76; Mismatches 132; Indels 151; Gaps 21;

OY 123 WMR-FRRGKMH-----SYFDLVFNLEKNTADATDIEFNSRLYMATLYKT 173
 Db 117 WPIFPHGRKEKGVSAQVQFYHDLIDELIKNGITP-----FVYVFHMDT 161
 OY 174 YTNV-DEFGA-----SFFNKLSTTGLFGWGIRKAL--KOIRSNPLDIG----- 216
 Db 162 PQGLEDEYGFLESRIVKDPREYADFVQEGYGVKWHITFENEPWFSHAGDYGVKKAPG 221
 OY 217 --TEHSYSLQHTTSKKDMDQ-----IPALPKFKRRF 249
 Db 222 RSSSYNAKQDGRSGEALVTHNLISHAEVAYRKECKGKGIASHSPAMFEAH 281
 OY 250 SL-----HWVORLATVAG--YVDTPYKKMYMLKKNFMYNRV--FIPTKK----- 291
 Db 282 DLADSDGASIDRALDPILOMHDITTFGDPYPOIMKDIYVHRLPKFTTEOKAKAKASTDF 341
 OY 292 -----FENKEIREPSKALKERVSTDTKDFENKIGQ-----GTVDFFENKEIR 333
 Db 342 VGLNVTYSVFSNHLKRPDS-KPRMMDSLITWESKNAQVYATGSKPLTAALNYSRGR 400
 OY 334 DPKALKKEKSNDAKDLFENKIGQ-----GTVD-----FINNEIRDPKAL-IRK 377
 Db 401 SLTKYIKDKYANPEIMMENGEGEELGASDVAVGTADHNRKYYLQRIHLLSMOEAVCIDK 460
 OY 378 VS-TGA-----EDLFENKIGGTVDFTINNEIRDPKSKALIRKVTYEADDLFENKI 425
 Db 461 VNTGYGVWVSLDNEFMDQYKKNRFGLYYDFKNNLTR-----YKES 503
 OY 426 GGQTVDFINKIRDP 441
 Db 504 GKYYKDELQSGVR-PS 518

RESULT 22

PCT-US93-03077-1
 : Sequence 1, Application PC/TUS9303077
 : GENERAL INFORMATION:
 : APPLICANT: Board of Regents, The University of Texas System
 : APPLICANT: Gaynor, Richard B.
 : APPLICANT: Wu, Foon Kin
 : TITLE OF INVENTION: PROTEIN CELLULAR FACTOR USEFUL FOR
 : TITLE OF INVENTION: REGULATING GENE EXPRESSION
 : NUMBER OF SEQUENCES: 7
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Arnold White & Durkee

STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 . MEDIUM TYPE: Floppy disk
 . COMPUTER: IBM PC compatible
 . OPERATING SYSTEM: PC-DOS/MS-DOS
 . SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/03077
 FILING DATE: 19930331
 CLASSIFICATION:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/862,025
 FILING DATE: April 2, 1992
 ATTORNEY/AGENT INFORMATION:

NAME: Kammerer, Patricia A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: UTPD270PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 713-787-1540
 TELEFAX: 713-749-2679

TELEX:
 INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 1093 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: unknown
 TOPOLOGY: unknown

MOLECULE TYPE: protein
 PCT-US93-03077-1

Query Match 4.1%; Score 97.5; DB 5; Length 1093;
 Best Local Similarity 20.1%; Pred. No. 2.8; Indels 129; Gaps 20;

Matches 96; Conservative 67; Mismatches 194; Indels 129; Gaps 20;

OY 9 DVTETLLASESV--DSANAVYINSDMSDYL-SAVSDNEAFERICQVPGKSGCSASVS 64
 Db 379 EVNLTIVIPFEAMMESGSRATPVNCEOPDILVSSPIINGQTVLDK--AEQCEPAAS 436
 OY 65 AYMSRCAKOD-CLTLQSLKPLPEAK-YQPLTL-PDPIQLEAFLFRE-----SDANPA 115
 Db 437 QPEALSEKEDEYCKVEFLNERTLEKREAOQLLSKEKALLBEAFNLKDEMFRVKESSSI 496
 OY 116 NSTEKRFMRPRRGKNSYFHDVFNLEKNV-----TRDADATDIEFNSRLYMATLY 170
 Db 497 SSLDEFTQRIAE-----EKKVQLACKERDAKKEIRNIKEE----- 534
 OY 171 KYTYNVDEFGASFFNKLSTTGLFGWGIRKALKQIIRSNL-----PLDIGTEHSVRLQ 225
 Db 535 LATLNSSEFADLDLKEKDEQIRGLMEGEEKLSKQGLHNSITIKLRKDKENEMVAKLN 594
 OY 226 HTSSSYQVMDYQIPLPKAKRSLMVVORLATVAGYVDTPYKKMYMLKKNFMYNRV 285
 Db 595 KKVLELEEL-----QHLKQVLDG----- 613
 OY 286 FIPYKKFFENKEIREPSKALKERVSTDTKDL-----FENKIGGTVDFFENKEIRD 334
 Db 614 ----KEEVERKQRENIKKLSWEROEKDGRLOVMDLEBEKKRSTQALADSAYKELTD 669
 OY 335 PSKALKEKVSNDKADLFENKIGGTVDFFINNEI--RDPKALIRKVSFGAEDLFENKIGQ 392
 Db 670 LHKH-----NAKND-----SEAGEAALSREKAKELLSALEKAGEEARKQOQETIAIQ 717
 OY 393 GYVDFINNEIRDPKALIRKVTYEADDLFENKIGQ-----GTVDINKKEIRDPKALIRK 447
 Db 718 --VGDLRLAORTFOAARK-----EDYLRLHEIGELQORIQEAENRROELQSQSVSTTRP 770
 OY 448 VSTEADNL 455
 Db 771 LRLQIENL 778

RESULT 23
US-08-973-462-8
Sequence 8, Application US/08973462B
Patent No. 6191270
GENERAL INFORMATION:
APPLICANT: DRULHE, PIERRE
APPLICANT: DAUBERSES, PIERRE
TITLE OF INVENTION: MAIARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
FILE REFERENCE: 0660-0125-0 PCT
CURRENT APPLICATION NUMBER: US/08/973,462B
CURRENT FILING DATE: 1998-02-06
EARLIER APPLICATION NUMBER: PCT/FR96/00894
EARLIER FILING DATE: 1996-06-12
EARLIER APPLICATION NUMBER: FR 95/07007
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 1786
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Polypeptide
US-08-973-462-8

Query Match 4.1%; Score 97.5; DB 4; Length 1786;
Best Local Similarity 20.1%; Pred. No. 5.8;
Matches 80; Conservative 76; Mismatches 138; Indels 105; Gaps 20;

QY 109 ESDANPANSTKRRFMRFRGKNHSYFDLVEN-LLEK-NWTRDADTDIENFASRYLYM 166
DB 962 ESNENVAENLEK-----LNBYFNYVLDKVEETVEISGSLEN----- 999
QY 167 ATLYKTYTVDGFGAFENKL-----SFTGLFGWGKIRALKOIRSNLPIDIGT 217
DB 1000 -----NEMDKAFSEIFDNVKGIOENLILTMGF-----RSIFTSI-----VIQS 1037
QY 218 EHSVSRLOHITSSYKVDYDIOIPALPKAFKRSF-----WVQQLLATVAGYVDTPTMK 271
DB 1038 EEKVDLNNVSVSLDNIENKKEGLNKLNIISTEGVQETVTEHVEQNVYVDVPPMK 1097
QY 272 KMYKMLKMF--VNRVFIPTKFFNKE-----IRE-PSKALKEKYSTDTKDLFENKIGG 323
DB 1098 DQFGLINEAGLKEKMFNLEDVFKSESDVITVEIKDEPQKKEKETSIE-EMEN 1156
QY 324 TVDFPNKEIRDS---KALKE--KVSNDADLFEN-KIGGTVDFINNEIR---DPSK 372
DB 1157 IVDVLEEKEDLTKMIDAVEESIEISDSKEETESIKDKEDVSLVVEEVDNDMDSEV 1216
QY 373 ALIRKVSAGADLFENKIGGTVDFINNEIRDPKALIRKY---TEAD---DLFENKI 425
DB 1217 EKVELKMEELMKDAV-----EINDITSKLIETQELNEVADLTKMEKLE 1266
QY 426 GGGTVDFINKEIRDPKALIRKV-----STEADNILE 457
DB 1267 LEKALSEDSKEIIDAOKDTLEKVIIEEHDTITLDEVE 1305

RESULT 24
US-08-799-138-6
Sequence 6, Application US/08799138
Patent No. 5994053
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFEER, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO

COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: GOLRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELECOMMUNICATION INFORMATION:
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-799-138-6

Query Match 4.1%; Score 97; DB 2; Length 610;
Best Local Similarity 17.9%; Pred. No. 1.3;
Matches 63; Conservative 63; Mismatches 125; Indels 100; Gaps 16;

QY 139 VENLEKNTWRDADTDIENFASRYLYMATLYKTYTVDGFGAFENKLSFTTGLFGWG 198
DB 240 VNRSGQDQINKVNDIARRREREY-FNSTPEYKHLAN--RNGSEILAM----- 286
QY 199 IKRAIKQIIRSNLPLDIGHESVSR-----LQHTTS-- 230
DB 287 LSKHLETVYKSKIP--GIOSLINTKIALEAELTRLCKPVAADAGKLYAIMEICRSFD 343
QY 231 --YKDYM-----DIOIPALPK--FAKRSIAMVVOIRLATVAGY---VDPR 268
DB 344 QIFKDLHGVRPGGKIYVFNQPLPALKRLQFDQUSMENIRKLITRADGTQPHLAP 403
QY 269 WYKMYKMLKMFVNRVFIPTKFFNKEIREPSKALKEKYSTDTKDL-----FENKIGG 323
DB 404 --EGQYRRLIESLTIIRPASAVID-AVHSLKDLVHAMSETIDLKQYPLGAREVGNA 460
QY 324 TVDFPNKEIRDPKALKEKVSNDADLFENKIGGTVDFINNEIRDPKSA--LIRKVSFG 381
DB 461 SVDSLER--MRDESK-----RATIQLVDMCEGYLTVDFEFRLPDVDKGNPTHSICDR 512
QY 382 AEDLFENKIGGTVDFINN-----EIRDPKALIRKYTE 416
DB 513 YNDSYLRIGITITLSTVNMVCAFLRHSIPKSIYVCQVREAKRSLDHPFTE 563

RESULT 25
US-09-392-362-6
Sequence 6, Application US/09392362
Patent No. 6248868
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFEER, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible


```

      FILING DATE: 28-JUL-1989
      PRIOR APPLICATION DATA: US 238,801
      APPLICATION NUMBER: US 238,801
      FILING DATE: 02-NOV-1988
      PRIOR APPLICATION DATA:
      APPLICATION NUMBER: US 645,732
      FILING DATE: 30-AUG-1984
      ATTORNEY/AGENT INFORMATION:
      NAME: Baumeister, Kirk
      REGISTRATION NUMBER: 33,833
      REFERENCE/DOCKET NUMBER: P50134 PCT
      TELECOMMUNICATION INFORMATION:
      TELEPHONE: 215-270-5096
      TELEFAX: 215-270-5090
      INFORMATION FOR SEQ ID NO: 32:
      SEQUENCE CHARACTERISTICS:
      LENGTH: 304 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
      MOLECULE TYPE: protein
      PCT-US94-01149-32

Query Match          4.18; Score 96.5; DB 5; Length 304;
Best Local Similarity 20.9%; Pred. No. 0.51;
Matches 60; Conservative 38; Mismatches 84; Indels 105; Gaps

      Oy 189 SFTTGLFGWGIKRAL-----KOIIR---SNLPDIDGT-----EHSVSR 222
      Db 8 SFYVDCLMHRKRVAVQDELGDAFELDRLRDQSLNGRSTGLDLETATRAQKQYVER 67
      Oy 224 LQHTTSSYKDYMDQIDALPRFAKRFSLMVQRLLATVAGYVDPW---YKKWY----- 274
      Db 68 ILKEESDEALKMTQIPIG-----LFGAIAGIEGGWTGMIDGWYGHQN 112
      Oy 275 -----MKLNPMWNRV-----FIFPKFENKEIPEPSKALKKEYSTD 311
      Db 113 EOGSGYADQKSTONALNGITNKNVSVIEKMNIOFTAVGKEFN-LERRMENLNKKVDDG 177
      Oy 312 TKD-----LEFNKIGOGIVDFPNKEIRPSKALKEKVSNDADKLEFNKIGOGIVD 361
      Db 172 FLDIWTYNALLVLEEN---ERTLDFHDSNVKNLYEKVKSQLKNNAKE-----IGNCFE 222
      Oy 362 F---INNEIRDPSSKALLRKYSTGAEDL---FENKIGOGIVDPINNE 401
      Db 224 FYRKCDNE-----CMESVRNKGTYDYPKYSEESKLNRKRYDGVKLE 263

RESULT 28
US-08-471-033-32
Sequence 32. Application US/08471033
Patent No. 5770696
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Kozziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5770696el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,033
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: P-40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV7 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8682
TELEFAX: 919-541-8689
INFORMATION FOR SEQ. ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 789 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-033-32

Query Match 4.1%; Score 96.5; DB 1; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

QY 4 SDSVGVYTKTLAASVSANAYMINSMDYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDTGSDLT-----LDEILKNOQLNDISGLDGVNSLNDLIAQ-----GNLNTTEL 85
QY 64 SAYMSRCARQDCLTLOSRLKPLEA-----KYOP-----LTLPDPY---Q 99
DB 86 SKELITANQONOVLDVNNKLDATMTMLRVLYLPKITSMLSVMKONVALSLQIEYLSKQ 145
QY 100 LEAFLIFKESDANP-ANSTKRFMRFRGKN-HSYFHDLVF-NLLEKNVTRDADATDI 156
DB 146 LQETSDKLDIINNVNLINSTLTETTPAYQRIKYVNEKEFEELTATETSSKVKKDGSPADI 205
QY 157 ENASRYLVMTLYKTYTNVDEFGASFNKLSTFTTGLEG-WGIKRALKQIITSNLP-- 213
DB 206 RDELTELTELAKSVTKNDVDGFEFYLNTEFHDVAVGNLFGRSALKTASELITRENVKTS 265
QY 214 -DIGTEHS---VSRLQHTTSSYKDYMDIQIPALPKFAKRFSLMVORLLATVAGYVDP 268
DB 266 SEYGVNYNELIVLTAQ-----AKAFLLTLCRKLGLADIDYTS 305
QY 269 WYKKWYMKL-NFMVNRVFLPIPKFENKEIREPSKALKEKVSQDYTDLEFNKIGQGVDF 327
DB 306 INNEHLNKEKEEFRRV--LLPT---LSNFTSNBNYAKVKSGSDDAKMIYEAKPGRHALIGF 360
QY 328 FNEETDPSKALKEKVSNDN---KDLFENKIGQGVDFINNEIRDSKALIRKVSQAED 384
DB 361 -----EISNDSTIVYLKVEAKLKO-----NYQV---DKDSLSEVITYGMD 397
QY 385 --LEFNKIGQGVDFINNEIRDSKALIRKV-----YTEADDLFENKIGQGVDF 432
DB 398 KLLCPQSGO---IYTNINIVFPNEVYITKIDPTKKMKTLRYEVTAANFYDSSIGE--ID- 451
QY 433 INKEIRDPKALIRKYSTADN 455
DB 452 LNKKVESSAEYRSLSANDGV 474

RESULT 29
US-08-471-044-32

Sequence 32, Application US/08471044
Patent No. 5840868
GENERAL INFORMATION:
APPLICANT: Warren, Gregory M
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Marsha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5840868el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NJ
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,044
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: 40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV6 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8682
TELEFAX: 919-541-8689
INFORMATION FOR SEQ. ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 789 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-044-32

Query Match 4.1%; Score 96.5; DB 2; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

QY 4 SDSVGVYTKTLAASVSANAYMINSMDYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDTGSDLT-----LDEILKNOQLNDISGLDGVNSLNDLIAQ-----GNLNTTEL 85
QY 64 SAYMSRCARQDCLTLOSRLKPLEA-----KYOP-----LTLPDPY---Q 99
DB 86 SKELITANQONOVLDVNNKLDATMTMLRVLYLPKITSMLSVMKONVALSLQIEYLSKQ 145
QY 100 LEAFLIFKESDANP-ANSTKRFMRFRGKN-HSYFHDLVF-NLLEKNVTRDADATDI 156
DB 146 LQETSDKLDIINNVNLINSTLTETTPAYQRIKYVNEKEFEELTATETSSKVKKDGSPADI 205


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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/471,046A
  FILING DATE: 06-JUN-1995
  CLASSIFICATION: 435
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/463,483
    FILING DATE: 05-JUN-1995
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/314,594
    FILING DATE: 09-SEP-1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/218,018
    FILING DATE: 23-MAR-1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/037,057
    FILING DATE: 25-MAR-1993
  ATTORNEY/AGENT INFORMATION:
    NAME: Meligs, J. Timothy
    REGISTRATION NUMBER: 38,241
    REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV8 - SOLV4
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 919-541-8587
      TELEFAX: 919-541-8589
    INFORMATION FOR SEQ ID NO: 32:
      SEQUENCE CHARACTERISTICS:
        LENGTH: 789 amino acids
        TYPE: amino acid
        TOPOLOGY: linear
      MOLECULE TYPE: protein
      US-08-471-046A-32

Query Match      4.18; Score 96.5; DB 2; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

OY 4 SDSVGDYTKTLAASESDSANANVMINSQMSDYLAVSDFAERICQVKGSCASV 63
DB 40 TDTGSDLT-----LDELTKNQQLNDISGKLDGVNGSLNDLIAO-----GKLNTEL 85
OY 64 SAYMSRCAKODCLTLQSLAKYPLEA-----KYQP-----LTLPPPY---Q 99
DB 86 SKEIKTIANEQNYLVNDVNNKLDALINMLRVLYLPKITSMLSDVKKONVALSLQIEVLSQ 145
OY 100 LEAFILFKESDANP-ANSTKRFRMRFRGRKN-HSYFHDLVF-NLEKNTROADATDI 156
DB 146 LQETISDKLDIINNVNLINLTETTPAYQRIKYNEKFEELTFETTSKVKKDGSPADI 205
OY 157 ENFASRYLYMATLYKYTYNDEFGASFNKLSTTGLFG-WGJKRALQKQIRSNLPL- 213
DB 206 RDELTELTELAKSVTKNDVDFEFLYNTFHDVWGNLFGSALKTASELTKEVNRKSG 265
OY 214 -DIGTEHS---VSRLOHTTSSYKDYMDTOIPALPKAKRFSLMVORLATVAGYDTP 268
DB 266 SEVGNVNYFLIVLTALO-----AKAFLTLTPCKRLGLADIDYTS 305
OY 269 WYKKWYMKL-NEMVNVNFIPTKKFENKEIREPSKALKKEKSTDTKDFENKIGQTVDF 327
DB 306 IMNHLNKKEEKEPRVN--TLPT---LSNTFSNPYAKVKGSDDEAKMIVEAKPGHALIGF 360
OY 328 FNEKIRPSKALKKEKVSND---KDFENKIGQTVDFINNEIRDPKSKALIRKYSTGAED 384
DB 361 -----EISNDSTVLKVEAKLKQ-----NQV---DKDSLEVIYIGMD 397
OY 385 --LFEKNIGQTVDFINNEIRDPKSKALIRK-----YTEADDLFEKNIGQTVDF 432
DB 398 KLLCPDQSGQ---IYYTNIVVFPMNEVYITKIDFTKKMKTLREVTANFYDSSTG--ID- 451
OY 433 INKEIRDPKSKALIRKYSTEADNL 455
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DB 452 INKKVESSEAEYRTLSANDGV 474
RESULT 32
US-08-470-566B-32
Sequence 32, Application US/08470566B
Patent No. 5872212
GENERAL INFORMATION:
  APPLICANT: Warren, Gregory W
  APPLICANT: Kozziel, Michael G
  APPLICANT: Mullins, Martha A
  APPLICANT: Nye, Gordon J
  APPLICANT: Carr, Brian
  APPLICANT: Desai, Nalin M
  APPLICANT: Kostichka, N. Kristy
  APPLICANT: Duck, Nicholas B
  APPLICANT: Estruch, Juan J
  TITLE OF INVENTION: No. 5872212a1s Pesticidal Proteins and Strains
  NUMBER OF SEQUENCES: 52
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: No. 5872212a1s Corporation
    STREET: 3054 Cornwallis Road
    CITY: Research Triangle Park
    STATE: NC
    COUNTRY: USA
    ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/470,566B
  FILING DATE: 06-JUN-1995
  CLASSIFICATION: 530
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/463,483
    FILING DATE: 05-JUN-1995
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/314,594
    FILING DATE: 09-SEP-1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/218,018
    FILING DATE: 23-MAR-1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 08/037,057
    FILING DATE: 25-MAR-1993
  ATTORNEY/AGENT INFORMATION:
    NAME: Meligs, J. Timothy
    REGISTRATION NUMBER: 38,241
    REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV4 - SOLV4
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 919-541-8587
      TELEFAX: 919-541-8589
    INFORMATION FOR SEQ ID NO: 32:
      SEQUENCE CHARACTERISTICS:
        LENGTH: 789 amino acids
        TYPE: amino acid
        TOPOLOGY: linear
      MOLECULE TYPE: protein
      US-08-470-566B-32

Query Match      4.18; Score 96.5; DB 2; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

OY 4 SDSVGDYTKTLAASESDSANANVMINSQMSDYLAVSDFAERICQVKGSCASV 63
DB 40 TDTGSDLT-----LDELTKNQQLNDISGKLDGVNGSLNDLIAO-----GKLNTEL 85
OY 64 SAYMSRCAKODCLTLQSLAKYPLEA-----KYQP-----LTLPPPY---Q 99
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Db      86 SKEILKIANEQNOVLNDVNNKLDIAINTMLRYLPTKITSMLSDVMKONVALSIQIEVLSKQ 145
Oy      100 LEAATILFKESDAMP-ANSTKRFMMRFRGKN-HSYFDLVF-NLLEKNVTRDADATDI 156
Db      146 LOEISDKLDIINNVNLINSTLEITPAVORIKYVNEKFEELTATETSSKVKKDGSPADI 205
Oy      157 ENFASRYLYMAFLYKTYTNVDEFGAFNNKLSFTTGLFG-WGIRKALQIIRSNLPL-- 213
Db      206 RDELTELTELASVTKNDVDGFEFLNTHFDVWGNLFGRSALKATASLITKENKVTSG 265
Oy      214 -DIGTEHS---VSRLOHTTSSKYKMDTOIPALPFAKRFSLMVQRLLATVAGVDP 268
Db      266 SEGVNYYNFIYLTALQ-----AKAFILTFPCRLKLGADIDYTS 305
Oy      269 WKKKYYMKLK-NFMVNRVFIPTKFFNKIRBPSKALKKVSVDTPKDLFENKIGQTVDF 327
Db      306 INNEHLNKEEKEFRVN--LLPT---LSNTFSNPNTAKVGSDEDAKMIYEAARGHALIGF 360
Oy      328 FNKEIRDPKALKKEKVSND---KDLFENKIGQTVDFINNEIRDPKALKIRKYSTGAD 384
Db      361 -----EISNDSTIVLKYEAKLQ-----NYQV---DKDSLSEVIYGDMD 397
Oy      385 --LFENKIGQTVDFINNEIRDPKALKIRK-----YTEADLFEKNIGQTVDF 432
Db      398 KILCPDOSGO--IYTNIVPEPNEVITRKIDFTKMKMTLRREVTPANFYDSSTGE--ID- 451
Oy      433 INKEIRDPKALKIRKYSTEADNL 455
Db      452 LNKKKVESSEAEYRTLSANDGV 474

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RESULT 33

US-08-838-219B-4

Sequence 4, Application US/08838219B

Patent No. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kostichka, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESS: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NY

COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30B

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/838,219B

FILING DATE:

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/463,483

FILING DATE: 06-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/314,594

FILING DATE: 09-SEP-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/218,018

FILING DATE: 23-MAR-1994

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pace, Gary M.
; REGISTRATION NUMBER: 40,403
; REFERENCE/DOCKET NUMBER: CGC 1925
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8582
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-838-219B-4

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Query Match 4.1%; Score 96.5; DB 2; Length 789;

Best Local Similarity 20.3%; Pred No. 2.1; Mismatches 202; Indels 119; Gaps 24;

Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

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Oy      4 SDSVGDVTKTLTAAESVDAAANAYMINSMDYLSAVSDNFAERICQVPGKSNCSASY 63
Db      40 TDTGDDLT-----LDELKNOQLNDISGKLDGVNGSLNDLIAQ-----GNLNTL 85
Oy      64 SAYMRCARQDCITLOSLEYLEA-----KYOP-----LTLPDPY---Q 99
Db      86 SKEILKIANEQNOVLNDVNNKLDIAINTMLRYLPTKITSMLSDVMKONVALSIQIEVLSKQ 145
Oy      100 LEAATILFKESDAMP-ANSTKRFMMRFRGKN-HSYFDLVF-NLLEKNVTRDADATDI 156
Db      146 LOEISDKLDIINNVNLINSTLEITPAVORIKYVNEKFEELTATETSSKVKKDGSPADI 205
Oy      157 ENFASRYLYMAFLYKTYTNVDEFGAFNNKLSFTTGLFG-WGIRKALQIIRSNLPL-- 213
Db      206 RDELTELTELASVTKNDVDGFEFLNTHFDVWGNLFGRSALKATASLITKENKVTSG 265
Oy      214 -DIGTEHS---VSRLOHTTSSKYKMDTOIPALPFAKRFSLMVQRLLATVAGVDP 268
Db      266 SEGVNYYNFIYLTALQ-----AKAFILTFPCRLKLGADIDYTS 305
Oy      269 WKKKYYMKLK-NFMVNRVFIPTKFFNKIRBPSKALKKVSVDTPKDLFENKIGQTVDF 327
Db      306 INNEHLNKEEKEFRVN--LLPT---LSNTFSNPNTAKVGSDEDAKMIYEAARGHALIGF 360
Oy      328 FNKEIRDPKALKKEKVSND---KDLFENKIGQTVDFINNEIRDPKALKIRKYSTGAD 384
Db      361 -----EISNDSTIVLKYEAKLQ-----NYQV---DKDSLSEVIYGDMD 397
Oy      385 --LFENKIGQTVDFINNEIRDPKALKIRK-----YTEADLFEKNIGQTVDF 432
Db      398 KILCPDOSGO--IYTNIVPEPNEVITRKIDFTKMKMTLRREVTPANFYDSSTGE--ID- 451
Oy      433 INKEIRDPKALKIRKYSTEADNL 455
Db      452 LNKKKVESSEAEYRTLSANDGV 474

; RESULT 34
; US-08-469-334-32
; Sequence 37, Application US/08469334
; Patent No. 5990383
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory W
; APPLICANT: Koziel, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalini M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J

```


Patent No. 6137033
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: A No. 6137033el Class of Proteins for the
TITLE OF INVENTION: Control of Plant Pests
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/233,752A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/838,219
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: 40,403
REFERENCE/DOCKET NUMBER: CGC 1925
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 789 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-233-752A-4

Query Match 4.1%; Score 96.5; DB 4; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

QY 4 SDSVGVTKTLAASEVSDSAANAYMINSMDYLSAVSDNFAERICSQVPKGSCASV 63
DB 40 TDTGCDLT-----LDELKNOQLNDISGKLDGVSNDLNDIAQ-----GNLMTL 85
QY 64 SAYMSRCAKODCLTLOSILKYPLEA-----KYOP-----LTLPDPY---Q 99
DB 86 SKELTKJANONOVLDVNNKLDIAINTMLNVPKITSMSLDVAKQNVALSLQIETLSKQ 145
QY 100 LEAFILFKESDANP-ANSTEFKRMFRGRGN-HSYFHDLVF-NLEKNVTRDADATDI 156
DB 146 LQETSDKLDIINNVILNSTLETITPAVORIKIYNEKEFEELTATETSSKKKGSADI 205

QY 157 ENFASRYLYMATLYKTYTNVDEFGASFENKLSFTTGLFG-WGIRKALKOIINSNLEPL-- 213
DB 206 RDELTELTLELAKSVTKNDVGFEEYLTNPFHDVWGNLFEFSALKLTFASELITRENVTSG 265
QY 214 -DIGTEHS-----VSRLOHITSSYKDYMDQIPALPKFAKRFSLMVQRLATVAGYVDP 268
DB 266 SEVGNNVNEFLIVLALQ-----AKAFLLITPCKLLGLADIDYTS 305
QY 269 WYKKWYKLR-NFVNVNVEFPTPKFENKIREPSKALKEVSDTKDLFENKIGOGTVDF 327
DB 306 IMNHNLKKEKEEFVNV--ILPT---LSNTFSNPVAKVKGSDADAKMIVAKGHALIGF 360
QY 328 FNEKIRDPKALKKEVSNDA---KDLFENKIGOGTVDFINNEIRDPKALKIRKYSTAED 384
DB 361 -----EISNDSTYLKVEARKQ-----NYQ---DKDSLSEVTVGDM 397
QY 385 -LEFNKIGOGTVDFINNEIRDPKALKIRK-----YEADDLFENKIGOGTVDF 432
DB 398 KLCPPDSGQ---IYYNNIVFNEVYITKIDFTKKMKTLRYETANFYDSSTGE--ID- 451
QY 433 INNEIRDPKALKIRKYSTAEDNL 455
DB 452 LNKKEVSEAEYRTLSANDGV 474

RESULT 38
US-09-402-036-4
Sequence 4, Application US/09402036
Patent No. 6291156
GENERAL INFORMATION:
APPLICANT: Estruch, Juan J.
APPLICANT: Yu, Cao-Guo
APPLICANT: Warren, Gregory W.
APPLICANT: Desai, Nalin M
APPLICANT: Koziel, Michael
APPLICANT: Nye, Gordon
TITLE OF INVENTION: Plant Pest Control
FILE REFERENCE: S-21284C
CURRENT APPLICATION NUMBER: US/09/402,036
CURRENT FILING DATE: 2000-02-08
PRIOR APPLICATION NUMBER: PCT/EP98/01952
PRIOR FILING DATE: 1998-04-02
PRIOR APPLICATION NUMBER: 08/838,219
PRIOR FILING DATE: 1997-04-03
PRIOR APPLICATION NUMBER: 08/832,263
PRIOR FILING DATE: 1997-04-03
PRIOR APPLICATION NUMBER: 08/832,265
PRIOR FILING DATE: 1997-04-03
PRIOR APPLICATION NUMBER: 08/463,483
PRIOR FILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: 08/314,594
PRIOR FILING DATE: 1994-09-09
PRIOR APPLICATION NUMBER: 08/218,018
PRIOR FILING DATE: 1994-03-24
PRIOR APPLICATION NUMBER: 08/037,057
PRIOR FILING DATE: 1993-03-25
NUMBER OF SEQ ID NOS: 22
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 789
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-09-402-036-4

Query Match 4.1%; Score 96.5; DB 4; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1; 202; Indels 119; Gaps 24;
Matches 102; Conservative 80; Mismatches

QY 4 SDSVGVTKTLAASEVSDSAANAYMINSMDYLSAVSDNFAERICSQVPKGSCASV 63
DB 40 TDTGCDLT-----LDELKNOQLNDISGKLDGVSNDLNDIAQ-----GNLMTL 85
QY 64 SAYMSRCAKODCLTLOSILKYPLEA-----KYOP-----LTLPDPY---Q 99

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Db      86 SKEILKIANEQVNDVANKDAITMLRYLPRKTSMLSDVMKONVALSLQIEVLSQ 145
      100 LEAAILFKESDAMP-ANSTERKFMNRRGRN-HSYFDLVF-NLEKNVTADATDI 156
      146 LQEISDKLDIIINYNLITLFEIPAYQRIKYVNEKFEELFATETSKVKKDGSPADI 205
      157 ENFASRYLTMALTYKTYNNVDEFGASFNNKLSFTTGLG-WGIRKALQIIRSNLPL-- 213
      206 RELTELFEELASVTKNDVGEFELNTPHDVAVGNNLFGRSALKYASBLITKENYKTS 265
      214 -DIGTEHS-----VSRLOHTSSYKIDMDQIPALPFKAFKFSLMVYQRLATVAGVDP 268
      266 SEGVNVTNLYLTLAQ-----AAFLTLTPCRKLLGIADIDYIS 305
      269 WKKWYMKLK-NFVNNRVEIPTKPFENKEIRPSKALKRKVSTDTKDFENKIGQTVDF 327
      306 INNEHLNKEEFRRV--ILPT---LSNTEFSPNNAKVKGSDADAKMIYEAKGHALIGF 360
      328 FKEIRDPKALKKEKYSNDA---KDLFENKIGQTVDFINNEIRDPKALKIRKVSIGAE 384
      361 -----EISNSITVLKYEAKLKQ-----NYOV---DKDSLSEVIYGDMD 397
      385 --LFENKIGQTVDFINNEIRDPKALKIRK-----YTEADDLFENKIGQTVDF 432
      398 KLLCPDQSQ---IYTNIVFPNEVITRKIDFTKKMKTLREVTANFYDSSTGE--ID- 451
      433 INKEIRDPKALKIRKVSIEADNL 455
      452 LNKKESESEAEYRTLSDNDGV 474

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RESULT 39

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; US-08-453-848-7
; Sequence 7, Application US/08453848
; Patent No. 5858368
; GENERAL INFORMATION:
; APPLICANT: Smith, Gale Eugene
; APPLICANT: Volkovitz, Franklin
; APPLICANT: Wilkinson, Belnante Eident
; APPLICANT: Voznesensky, Andrei I.
; APPLICANT: Hackelt, Craig Stanway
; TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
; TITLE OF INVENTION: HEMAGGLUTININ MULTIVALENT VACCINES
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 2800 One Atlantic Center
; STREET: 1201 West Peachtree Street
; CITY: Atlanta
; STATE: GA
; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,848
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120,607
; FILING DATE: 13-SEPT-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: MGS101CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404)-873-8794
; TELEFAX: (404)-873-8795

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; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 570 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Influenza virus
; INDIVIDUAL ISOLATE: A/Beijing/32/92 rHA
; NAME/KEY: ACPV 61k protein signal sequence
; LOCATION: 1 to 18
; FEATURE:
; NAME/KEY: mature rHA
; LOCATION: 19 to 552
; US-08-453-848-7

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Query Match          4.0%; Score 95.5; DB 2; Length 570;
Best Local Similarity 18.7%; Pred. No. 1.6;
Matches 102; Conservative 74; Mismatches 196; Indels 173; Gaps 25;

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      3 PSDSVG--DYTKLLAASEVSDAANAAMNSDMDYLSA---VSDNFAERICS---QVP 54
      20 PGDFPNDNSTATLCLGHAVNPGLVKTITNDQIEVTNTELVQSSSTGRIDSPHRL 79
      55 KGSNCASVASYVSRCAKQDCLTSLKYP-----EAKYQPLPLPPYOL-----EA 102
      80 DGNKCTL-IDALL---GDPHCGDFQNKEMDLFEPERSKAYSNCYPIYDPAISRLVASS 135
      103 AFLFKESDAMPANSTKRFMRGRKNHSHYFDLVFNLLEK-----NVT----- 148
      136 GTLEFINEDPNMTGVAODGSYACKRGVSNSFSLR--NMLHSEKYPALNTVPMNNGK 193
      149 -----RDADADIENFASRYLYMAT-----LY 170
      194 FDKLYIWGVAHPSTDRDQTSLYVRASGRVYSTRSQOQVTPNIGSRPMWVGQSSRIST 253
      171 YKTYTVNDEFGASFNNKLSFTTGLFGWIKRALQIIRSNLPLDITGHSRLOHTSS 230
      254 WTVKRGDILLINSTGNLAPRGYF--KIRNGKSSIMRSDAPIGTCSSECITNGSIPND 311
      231 --KYDMDQIPALPFKAFKESLMV-----VQRLATVAGVDTPW--YKKWY 274
      312 KPEQNNRITLYGACPRYVKONTLKLATGMRNVPEKQTRGIFGAIENGMEGWVDGWY 371
      275 -----MKLK-----NFWNNRVEIPTKPFEN--KEIRPSKALK--EK 307
      372 GFRHNSSEGTGAADLSTQOALIDQINGKLNRLIEKTEKFEHIEKESVEGRIDLEK 431
      308 VSTDTR-DLFENKIGQTVDFENKEIRDPKALKREKSNDAKDLFENKIGQTVDFINNE 366
      432 YVEDTKIDLMS-----YNAEL---LYALE-----NQHIIDLDS 463
      367 IRDPKALKIRKVSIGAEULFENKIGQTVDFINNEIRDPKALKIRKYYEADLLENKIG 426
      464 MNLFEKTRQLRENAEDM-----GNMCF-----KXHHCKDNACIGSIR 502
      427 QGTVDF 431
      503 NGTYD 507

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RESULT 40

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; US-09-169-027-7
; Sequence 7, Application US/09169027
; Patent No. 6245532
; GENERAL INFORMATION:
; APPLICANT: Smith, Gale Eugene
; APPLICANT: Volkovitz, Franklin

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APPLICANT: Wilkinson, Bethanie Elident
APPLICANT: Voznesensky, Andrei I.
TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
TITLE OF INVENTION: HEMAGGLUTININ MULTIVALENT VACCINES
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: GA
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,027
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/453,848
FILING DATE: 30-MAY-1995
APPLICATION NUMBER: 08/120,607
FILING DATE: 13-SEPT-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MGS101C1P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-873-8795
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 570 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Influenza virus
INDIVIDUAL ISOLATE: A/Beijing/32/92 rHA
FEATURE:
NAME/KEY: AcNPV 61k protein signal sequence
LOCATION: 1 to 18
FEATURE:
NAME/KEY: mature rHA
LOCATION: 19 to 552
US-09-169-027-7

Query Match 4.0%; Score 95.5; DB 4; Length 570;
Best Local Similarity 18.7%; Pred. No. 1.6;
Matches 102; Conservative 74; Mismatches 196; Indels 173; Gaps 25;

QY 3 PSDSVG--DYTKTLAASESDSANAMVINSMDYLISA---VSDNFAERIC---QVP 54
DB 20 PGDFPGDNDSTATCLCHHAAVNGTLVKTINDOIETVNTATLVOSSSTGRICDSPHRL 79
QY 55 KGSNCASVSAYMRCAKODCLTLOSLKYP-----EAKYOPLLPDPYQL-----EA 102
DB 80 DGRKCTL-IDALL---GDPHCDGFQNKEMDLFEKSKAYSCYDYDPDYASLSLVASS 135
QY 103 AFILFKESDANPANSTKRFMMRRRGKNHSYFHLVFNLEK-----NVT----- 148
DB 136 GTLEFINEDFMWGTGVAQDGGSGACKRGSVNSFSRL--NMLHKGSEYKYPALNTMTMNNKG 193
QY 149 -----RDADATDIENFASRYLYMAT-----LY 170

DB 194 FDKLYIWCVHHPSTDRDQTSLYVRASGRVTVSTRSQQTVPNIGSRPMVRGQSSRSIY 253
QY 171 YKTYTNVVEFGASFENKLSFTTGLFGMGIKRALKOIIRSNPLDIGTEHSVSRLOHTSS 230
DB 254 WTIYKPGDILLINSTGNLIARGYE--KIRNGKSSIMSDAPIGCSSECCITPNSTIND 311
QY 231 --YKDYMDTOIPALPEKFAKRESLAV-----VORLLATYAGVYDTW---YKKWY 274
DB 312 KPGQVNRITYGACPRYVKQNTLKLATGMRVNPEKOTGIFGALGFIEGMEGVDMY 371
QY 275 -----MKLK-----NEMVNRVFIPTKKFFN---KEIREPSKALK--EK 307
DB 372 GFRHNSGEGTGOADLKLSTQAAIDQINGKLNRLEKTEKFEHOLEKFESEVEGRIOLEK 431
QY 308 VSTDTR-DLFENKIGQGVDFENKEIRDPSPKALKEKYSNDAKDLFENKIGQGVDFINNE 366
DB 432 YVEDTKIDLMS-----YNAEL--LVALE-----NQTIDLTQSE 463
QY 367 IRDSPKALIRKVSFGAEDLFENKIGQGVDFINNEIRDPSPKALIRKYYTEADDLFENKIG 426
DB 464 MNKLEKTRKQLREVAEDM-----GNCGF-----KIYHKCDNMGCSIR 502
QY 427 QGTVD 431
DB 503 NGTYD 507

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Job time : 35 secs